# **TECHNICAL DATA SHEET**







# SLEEP & STRESS MANAGEMENT CORTISOL BALANCETM

Supports healthy circadian cortisol cycle and stress response.

Cortisol Balance™ formula is designed to promote the balance of healthy cortisol levels. Often referred to as the stress hormone, cortisol is released in response to stress and is mainly produced by the adrenal cortex (intra-abdominal adipocytes also produce some cortisol). The production of cortisol is triggered by stress-induced signals from the hypothalamus and the pituitary gland as a component of the HPA (hypothalamic-pituitary-adrenal) axis. Mountain Peak Nutritionals® Cortisol Balance™ combines botanicals, vitamins, minerals and amino acids that have been shown to reduce the feelings of stress, support positive mood changes, and promote healthy adrenal cortisol activity. Magnolia officinalis bark, holy basil and ashwagandha are directly related to supporting the balance of normal cortisol produced by the adrenal cortex. Phosphatidylserine, 5-HTP, and I-theanine support the reduced feelings of stress and are used to are used to balance the equilibrium of the adrenal cortex. Vitamins B6, B12 and folinic acid are known anti-stress B vitamins and are present in their most bioavailable forms. Magnesium is a neuro-calming agent and responsible for over 300 biochemical reactions in the body. Cortisol Balance™ also helps with many common sleep issues. The ability to go to sleep, stay asleep and wake up rested and refreshed is enhanced. Through the use of nutrients to reduce the feelings of stress, Cortisol Balance™ promotes healthy cortisol levels that are usually highest in the early morning hours then gradually decrease throughout the day.

# Supplement Facts

Serving size: 1 capsule Servings per container: 90

\* Daily Value not established.

Amount per serving			%DV
Vitamin D3 (as Cholecalciferol) 500 IU	12.5	mcg	63%
Vitamin B6 (as Pyridoxine HCl and Pyridoxal-5-Phosphate)	15	mg	882%
Vitamin B12 (as Methylcobalamin)	150	mcg	6250%
Folate (as Calcium Folinate and L-5-MTHF Methyltetrahydrofolate, Calcium Salt)	250	mcg DFE	63%
Magnesium (as Glycinate)	50	mg	13%
Cortisol Balance Proprietary Blend:	380	mg	*
Ashwagandha extract (root) (Withania somnifera), Holy Basil (leaf) (Ocimum spp), Phosphatidylserine (from sunflower), 5-HTP (5-Hydroxytryptophan), L-Theanine, Magnolia officinalis extract (bark)			

Other ingredients: Vegetarian capsules (hypromellose, purified water), rice flour

## **INGREDIENTS:**

# <u>Ashwagandha</u>

Ashwagandha's active constituents are withanolides, which promote healthy cortisol levels, greater relaxation and more optimal C-reactive protein levels (1). Research reports that ashwagandha can affect the dopamine receptors in the corpus striatum of the brain (2).

# Magnolia bark

Magnolia bark's active constituent honokiol can affect the central nervous system at high doses, but at lower amounts can help to reduce feelings of stress. Honokiol has been shown to balance evening cortisol levels (3).

#### Holy Basil

Holy basil is an herb native to India, where it is known as tulsi. Holy basil is considered a stress-supporting and adaptogenic herb in Ayurveda (much like ashwagandha). This adaptogen provides an important nutrient to support the body's natural response to physical and emotional stress by balancing cortisol levels through influencing the HPA axis stress response (4).

# Phosphatidylserine

The phospholipid phosphatidylserine (PS) is found in cell membranes and is a critical component for healthy cellular communication. Several studies have shown that phosphatidylserine may help to balance the HPA axis and limit the negative consequences of over-activation of the adrenal cortex (5). Phosphatidylserine also helps balance cortisol levels during periods of stress (6). In the case of cortisol balancing, it appears phosphatidylserine has the capacity to act as an adaptogen.

# 5-HTP (Hydroxytryptophan)

Our body maintains a balance of serotonin and cortisol production; the less serotonin present, the more your body produces cortisol, and vice versa. While 5-HTP can also help sleep, it may be used during the daytime as well because it does not typically cause drowsiness. Considerable research has shown that 5-HTP can support reduced feelings of anxiety, as well as improve mood (7).

## L-Theanine

L-theanine is an amino acid found exclusively in green tea which has traditionally been used to enhance relaxation, reduce feelings of stress and improve concentration and learning ability (8). Theanine has been historically used for its relaxing and antianxiety effects by balancing levels of serotonin and GABA (9).

# Folate (as L-5-MTHF)

5-methyltetrahydrofolate (5-MTHF) is a naturally occurring form of folate and is the only form of folate that can cross the blood-brain barrier. It is used in Cortisol Balance because approximately 10% of people are not able to convert folate into 5-MTHF. Folate is required for the production of DNA and RNA, the building blocks of cells. Folate is most effective when taken with Methyl B12 and Vitamin C. Folate is required for the synthesis of SAM-e, a neurotransmitter associated with normal moods. Low concentrations of folate have been associated with fatigue, poor cognitive function, difficulty concentrating, low mood and irritability (11, 12).

# <u>B6 (Pyridoxal-5-Phosphate, Pyridoxine HCI),</u> <u>B12 (Methylcobalamin)</u>

The HPA axis can be significantly benefited by these adrenal supportive B vitamins since these essential nutrients are depleted by stress. These three B vitamins are also important in maintaining adrenal cortex function, supporting stress related fatigue, and promoting energy recovery.

# Vitamin D3 (Cholecalciferol)

Maintaining healthy vitamin D levels supports normal cortisol production within abdominal adipocytes (10).

#### Magnesium Glycinate

Magnesium is important for proper nerve and muscle function and helps mitigate the stresses that can affect cortisol levels.

Patients: Consult with your healthcare professional for the proper use of this formula.

For more information about this and other Condition Specific Formulas® please visit our website at:

# mountainpeaknutritionals.com

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